

HOLOGRAPHIC STORAGE MEDIUM COMPRISING POLYFUNCTIONAL EPOXY
MONOMERS CAPABLE OF UNDERGOING CATIONIC POLYMERIZATION

ABSTRACT OF THE DISCLOSURE

5 Disclosed is a holographic recording medium. The novel holographic recording
mediums disclosed herein comprises: a) at least one polyfunctional epoxide monomer or
oligomer which undergoes acid initiated cationic polymerization. Each epoxide in the
monomer or oligomer is linked by group comprising a siloxane to a silicon atom and
each monomer or oligomer has an epoxy equivalent weight of greater than about 300
10 grams/mole epoxide; b) a binder which is capable of supporting cationic
polymerization; c) an acid generator capable of producing an acid upon exposure to
actinic radiation; and optionally d) a sensitizer.

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